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JS 20060052830 A1	US-PGPUB	20060309		Cardiac rhythm management system with arrhythmia classification and electrode selection		607/4			Spinelli; Julio C. et al.
JS 20060041280 A1	US-PGPUB	20060223		Thoracic impedance detection with blood resistivity compensation		607/17	600/484; 600/547		Stahmann; Jeffrey E. et al.
JS 20060025827 A1	US-PGPUB	20060202		Apparatus and method for detecting lung sounds using an implanted device		607/17	600/526; 600/586		Hatlesad; John D. et al.
JS 20060020295 A1	US-PGPUB	20060126		Method and apparatus for monitoring heart failure patients with cardiopulmonary comorbidities		607/17	600/513		Brockway; Marina et al.
JS 20060020294 A1	US-PGPUB	20060126		Method and apparatus for optimization of cardiac resynchronization therapy using heart sounds		607/17	600/513; 600/528		Brockway; Marina et al.
JS 20060010090 A1	US-PGPUB	20060112		Expert system for patient medical information analysis		706/46	600/300		Brockway; Marina et al.
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JS 20060004418 A1	US-PGPUB	20060105		System and method for managing refractory periods		607/9			Stahmann; Jeffrey E. et al.

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JS 20050203581 A1	US-PGPUB	20050915		Cardiac rhythm management system with arrhythmia classification and electrode selection		607/9			Spinelli, Julio C. et al.
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JS 20050165453 A1	US-PGPUB	20050728		Method and apparatus for maintaining synchronized pacing		607/9			Stahmann, Jeffrey E. et al.
JS 20050149136 A1	US-PGPUB	20050707		Third heart sound activity index for heart failure monitoring		607/17			Siejko, Krzysztof Z. et al.
JS 20050148896 A1	US-PGPUB	20050707		Method and apparatus for third heart sound detection		600/528			Siejko, Krzysztof Z. et al.
JS 20050145246 A1	US-PGPUB	20050707		Posture detection system and method		128/203.14	607/17; 607/3		Hartley, Jesse W. et al.
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JS 20050115561 A1	US-PGPUB	20050602		Patient monitoring, diagnosis, and/or therapy systems and methods		128/200.24	128/204.18; 128/204.23		Stahmann, Jeffrey E. et al.
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JS 20050109338 A1	US-PGPUB	20050526		Cardiac pacing controlled via respiration therapy device		128/204.18	128/204.23		Stahmann, Jeffrey E. et al.
JS 20050107838 A1	US-PGPUB	20050519		Subcutaneous cardiac rhythm management with disordered breathing detection and treatment		607/17	607/42		Lovett, Eric G. et al.
JS 20050090719 A1	US-PGPUB	20050428		System and method for monitoring autonomic balance and physical activity		600/300	128/899; 128/904; 600/509; 600/529; 600/547		Scheiner, Avram et al.
JS 20050085738 A1	US-PGPUB	20050421		Sleep logbook		600/529	600/484; 600/595		Stahmann, Jeffrey E. et al.
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JS 20050080348 A1	US-PGPUB	20050414		Medical event logbook system and method		600/529	600/484		Stahmann, Jeffrey E. et al.
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JS 20050065572 A1	US-PGPUB	20050324		Diagnosis and/or therapy using blood chemistry/expired gas parameter analysis		607/42	607/17; 607/3		Hartley, Jesse W. et al.
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JS 20050065565 A1	US-PGPUB	20050324		System and method for cardiac rhythm management with synchronized pacing protection		607/9			Kramer, Andrew P. et al.

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JS 20050065447 A1	US-PGPUB	20050324		System and method for characterizing patient respiration		600/529			Lee, Kent et al.
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JS 20050061320 A1	US-PGPUB	20050324		Coordinated use of respiratory and cardiac therapies for sleep disordered breathing		128/204.18	128/204.23		Lee, Kent et al.
JS 20050061319 A1	US-PGPUB	20050324		Methods and systems for implantably monitoring external breathing therapy		128/204.18	128/204.23		Hartley, Jesse W. et al.
JS 20050061315 A1	US-PGPUB	20050324		Feedback system and method for sleep disordered breathing therapy		128/200.24	128/204.21; 128/204.23		Lee, Kent et al.
JS 20050049510 A1	US-PGPUB	20050303		Method and apparatus for catheterization by detecting signals indicating proximity to anatomical features		600/483			Haldeman, Paul Craig et al.
JS 20050043772 A1	US-PGPUB	20050224		Therapy triggered by prediction of disordered breathing		607/42			Stahmann, Jeffrey E. et al.
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JS 20050042589 A1	US-PGPUB	20050224		Sleep quality data collection and evaluation		434/262			Hatlestad, John D. et al.
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JS 20050021099 A1	US-PGPUB	20050127		Mode transition timing for synchronized pacing		607/9			Stahmann, Jeffrey E. et al.
JS 20050010257 A1	US-PGPUB	20050113		Classifying tachyarrhythmia using time interval between ventricular depolarization and mitral valve closure		607/14	600/518		Lincoln, William C. et al.
JS 20050004609 A1	US-PGPUB	20050106		Implantable devices and methods using frequency-domain analysis of thoracic signal		607/17			Stahmann, Jeffrey E. et al.
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JS 20040225330 A1	US-PGPUB	20041111		System and method for timing synchronized pacing		607/9			Kramer, Andrew P. et al.
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JS 20040127792 A1	US-PGPUB	20040701		Method and apparatus for monitoring of diastolic hemodynamics		600/439			Siejko, Krzysztof Z. et al.
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JS 20040082976 A1	US-PGPUB	20040429		System and method for correlation of patient health information and implant device data		607/32			Kalgren, James et al.
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JS 20040024423 A1	US-PGPUB	20040205		Cardiac rhythm management system selecting A-V delay based on interval between atrial depolarization and mitral valve closure		607/17			Lincoln, William C. et al.
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JS 20030233131 A1	US-PGPUB	20031218		Apparatus and method for ventricular rate regularization		607/9			Kramer, Andrew P. et al.
JS 20030220670 A1	US-PGPUB	20031127		System and method for eliminating cross-talk due to far-field signals		607/9			Stahmann, Jeffrey E. et al.
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JS 20030199937 A1	US-PGPUB	20031023		Atrial interval based heart rate variability diagnostic for cardiac rhythm management system		607/25	600/515		Carlson, Gerrard M. et al.
JS 20030199931 A1	US-PGPUB	20031023		System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing		607/9	607/25		Stahmann, Jeffrey E. et al.
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JS 20030078624 A1	US-PGPUB	20030424		Maximum atrial tracking rate for cardiac rhythm management system		607/9			Carlson, Gerrard M. et al.
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JS 20020173826 A1	US-PGPUB	20021121		Cardiac rhythm management system selecting A-V delay based on interval between atrial depolarization and mitral valve closure		607/9			Lincoln, William C. et al.
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JS 20020107551 A1	US-PGPUB	20020808		Pacing and sensing vectors		607/9			Stahmann, Jeffrey E. et al.
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JS 20020082663 A1	US-PGPUB	20020627		Pace counter isolation for cardiac resynchronization		607/27			Stahmann, Jeffrey E. et al.

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JS 20020082648 A1	US-PGPUB	20020627		Apparatus and method for ventricular rate regularization with biventricular sensing		607/9			Kramer, Andrew P. et al.
JS 20020082509 A1	US-PGPUB	20020627		Method and system for display of cardiac event intervals in a resynchronization pacemaker		600/510			Vanderlinde, Scott et al.
JS 20020077859 A1	US-PGPUB	20020620		System and method for displaying cardiac events		705/3			Stahmann, Jeffrey E. et al.
JS 20020077668 A1	US-PGPUB	20020620		Cardiac rhythm management system providing control of pacing features with a reduced number of variables		607/9			Kalgren, James et al.
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JS 20010037069 A1	US-PGPUB	20011101		Heart rate variability as an indicator of exercise capacity		600/510			Carlson, Gerrard M. et al.
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JS 7003347 B2	USPAT	20060221		System and method for cardiac rhythm management with dynamically adjusted synchronized chamber pacing protection period		607/9	607/14; 607/25; 607/4		Stahmann; Jeffrey E.
JS 6988002 B2	USPAT	20060117		Apparatus and method for ventricular rate regularization with biventricular sensing		607/18	607/19; 607/25		Kramer; Andrew P. et al.
JS 6963778 B2	USPAT	20051108		Maximum pacing rate limiter implemented using the evoked response-T-wave interval		607/25			Daum; Douglas R. et al.
JS 6963777 B2	USPAT	20051108		Cardiac rhythm management system and method using time between mitral valve closure		607/18			Lincoln; William C. et al.

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JS 6944499 B2	USPAT	20050913		Method and apparatus for avoiding unwanted sensing in a cardiac rhythm management device		607/9			Tang; Zhengnian et al.
JS 6941167 B2	USPAT	20050906		System and method for displaying cardiac events		600/523	607/2; 607/27; 607/30		Stahmann; Jeffrey E. et al.
JS 6922589 B2	USPAT	20050726		Site reversion in cardiac rhythm management		607/27	607/28		Stahmann; Jeffrey E. et al.
JS 6909916 B2	USPAT	20050621		Cardiac rhythm management system with arrhythmia classification and electrode selection		607/9	600/515; 600/518; 607/14		Spinelli; Julio C. et al.
JS 6907289 B2	USPAT	20050614		Triggered storage of diagnostic data associated with compromised resynchronization therapy		607/27	607/9		Stahmann; Jeffrey E. et al.
JS 6885890 B2	USPAT	20050426		Apparatus and method for multi-site anti-tachycardia pacing		607/14			Spinelli; Julio C. et al.
JS 6871095 B2	USPAT	20050322		Method and apparatus for maintaining		607/9			Stahmann; Jeffrey E. et al.

				synchronized pacing					
JS 6829505 B2	USPAT	20041207		System and method for cardiac rhythm management with synchronized pacing protection period		607/9			Kramer; Andrew P. et al.
JS 6810287 B2	USPAT	20041026		Implantable cardiac disease management device with trigger-stored polysomnogram and phonocardiogram		607/17			Zhu; Qingsheng et al.
JS 6795734 B2	USPAT	20040921		Method and apparatus for display of ventricular electrograms		607/27	600/509; 600/518; 600/523; 607/19; 607/25; 607/31; 607/63		Vanderlinde; Scott et al.
JS 6760623 B2	USPAT	20040706		Cardiac rhythm management system with staggered pulses for coordination therapy		607/9			Stahmann; Jeffrey E. et al.
JS 6757562 B2	USPAT	20040629		Reduction of left-ventricular offset interaction with tachyarrhythmia detection		607/14			Baker; Kenneth L. et al.
JS 6748272 B2	USPAT	20040608		Atrial interval based heart rate variability diagnostic for cardiac rhythm management system		607/14	600/508; 600/515; 607/9		Carlson; Gerrard M. et al.
JS 6718197 B1	USPAT	20040406		LV ectopic density trending		600/515	607/32		Carlson; Gerrard M. et al.
JS 6678547 B2	USPAT	20040113		Cardiac rhythm management system using time-		600/515	607/14		Carlson; Gerrard M. et al.

				domain heart rate variability indicia					
JS 6665564 B2	USPAT	20031216		Cardiac rhythm management system selecting A-V delay based on interval between atrial depolarization and mitral valve closure		607/17	607/9		Lincoln; William C. et al.
JS 6665558 B2	USPAT	20031216		System and method for correlation of patient health information and implant device data		600/510	607/30; 607/31; 607/59		Kalgren; James et al.
JS 6650940 B1	USPAT	20031118		Accelerometer-based heart sound detection for autocapture		607/28	600/528		Zhu; Qingsheng et al.
JS 6618618 B2	USPAT	20030909		Cardiac rhythm management system providing control of pacing features with a reduced number of variables		607/9	607/30		Kalgren; James et al.
JS 6574506 B2	USPAT	20030603		System and method for timing synchronized pacing		607/9	607/15		Kramer; Andrew P. et al.
JS 6564100 B2	USPAT	20030513		Cardiac rhythm management system with remotely activated capture verification for CHF and other patients		607/28			Warren; Jay A. et al.
JS 6553258 B2	USPAT	20030422		System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing		607/9	607/15		Stahmann; Jeffrey E. et al.
JS 6529772 B2	USPAT	20030304		Heart rate variability as an		600/510	600/521; 607/25		Carlson; Gerrard M.

				indicator of exercise capacity					et al.
JS 6522921 B2	USPAT	20030218		System and method for eliminating cross-talk due to far-field signals		607/9			Stahmann; Jeffrey E. et al.
JS 6512952 B2	USPAT	20030128		Method and apparatus for maintaining synchronized pacing		607/9			Stahmann; Jeffrey E. et al.
JS 6505082 B1	USPAT	20030107		Single pass lead system		607/123			Scheiner; Avram et al.
JS 6501988 B2	USPAT	20021231		Apparatus and method for ventricular rate regularization with biventricular sensing		607/9	607/25		Kramer; Andrew P. et al.
JS 6493586 B1	USPAT	20021210		Site reversion in cardiac rhythm management		607/27	607/28		Stahmann; Jeffrey E. et al.
JS 6480742 B2	USPAT	20021112		Pace counter isolation for cardiac resynchronization pacing		607/27	607/15		Stahmann; Jeffrey E. et al.
JS 6480740 B2	USPAT	20021112		Safety pacing in multi-site CRM devices		607/9	607/25		Stahmann; Jeffrey E. et al.
JS 6459929 B1	USPAT	20021001		Implantable cardiac rhythm management device for assessing status of CHF patients		600/513	600/510; 607/18; 607/20		Hopper; Donald L. et al.
JS 6438421 B1	USPAT	20020820		Mode transition timing for synchronized pacing		607/9			Stahmann; Jeffrey E. et al.
JS 6430439 B1	USPAT	20020806		Method for collection of biventricular histograms		607/9			Wentkowski; Rene H. et al.
JS 6430438 B1	USPAT	20020806		Cardiac rhythm management system with atrial shock timing		607/5			Chen; Victor T. et al.

				optimization					
JS 6415180 B1	USPAT	20020702		Device and method for ventricular tracking and pacing		607/9			Kramer; Andrew P. et al.
JS 6411848 B1	USPAT	20020625		System providing ventricular pacing and biventricular coordination		607/9	607/25		Kramer; Andrew P. et al.
JS 6366811 B1	USPAT	20020402		Extraction of hemodynamic pulse pressure from fluid and myocardial accelerations		607/27	600/485; 600/513; 600/526; 607/17; 607/23		Carlson; Gerrard M.
JS 6363278 B1	USPAT	20020326		Cardiac rhythm management system with staggered pulses for coordination therapy		607/9			Stahmann; Jeffrey E. et al.
JS 6353759 B1	USPAT	20020305		Cardiac rhythm management system promoting a trial pacing		607/9			Hartley; Jesse W. et al.
JS 6351669 B1	USPAT	20020226		Cardiac rhythm management system promoting atrial pacing		607/5			Hartley; Jesse W. et al.
JS 6301499 B1	USPAT	20011009		Heart rate variability as an indicator of exercise capacity		600/510	600/521; 607/25		Carlson; Gerrard M. et al.
JS 6285907 B1	USPAT	20010904		System providing ventricular pacing and biventricular coordination		607/9	607/25		Kramer; Andrew P. et al.
JS 6275727 B1	USPAT	20010814		Implantable cardiac rhythm management device for assessing status of CHF patients		600/513	607/17; 607/18; 607/20		Hopper; Donald L. et al.
JS 6212434 B1	USPAT	20010403		Single pass lead system		607/123			Scheiner; Avram et al.
JS 6119043 A	USPAT	20000912		Atrial and ventricular cardiac lead having a mechanical bias		607/123			Hsu; William et al.

JS 6026324 A	USPAT	20000215		Extraction of hemodynamic pulse pressure from fluid and myocardial accelerations		607/27	600/513; 607/9		Carlson; Gerrard M.
JS 6026320 A	USPAT	20000215		Heart rate variability as an indicator of exercise capacity		600/510	600/521; 607/25		Carlson; Gerrard M. et al.
JS 5885221 A	USPAT	19990323		Discrimination of atrial and ventricular signals from a single cardiac lead		600/515	607/5		Hsu; William et al.
JS 5792195 A	USPAT	19980811		Acceleration sensed safe upper rate envelope for calculating the hemodynamic upper rate limit for a rate adaptive cardiac rhythm management device		607/17	607/18; 607/19		Carlson; Gerrard M. et al.
JS 5776072 A	USPAT	19980707		Discrimination of atrial and ventricular signals from a single cardiac lead		600/518	600/521		Hsu; William et al.
JS 5674256 A	USPAT	19971007	6	Cardiac pre-ejection period detection		607/17			Carlson; Gerrard M.
JS 5603331 A	USPAT	19970218		Data logging system for implantable cardiac device		600/508	607/25		Heemels; Jan P. et al.
JS 5376106 A	USPAT	19941227		Multi-sensor blending in a rate responsive cardiac pacemaker		607/18			Stahmann; Jeffrey E. et al.
JS 4953145 A	USPAT	19900828		Active phase quieting target highlight detector		367/138	367/12; 367/135; 367/901		Carlson; Gerrard M.